

COURSE INFORMATION FOR 22S:120

PROBABILITY AND STATISTICS

Summer, 2007

INSTRUCTOR Richard Dykstra
217 Schaeffer Hall
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OFFICE HOURS: Daily, 10:30 - 11:30 (or by appointment)

DEPARTMENT INFORMATION Department of Statistics and Actuarial Science
241 Schaeffer Hall
Phone: 335-0706

DEPARTMENT EXECUTIVE OFFICER: Luke Tierney, 241 SH
Phone: 335-0712

TEXT:

The text for this course will be "A Brief Course in Mathematical Statistics" by Elliot Tanis and Robert Hogg published by Pearson-Prentice Hall. Additional references and reading material may be provided during the semester.

EXAMS:

One midterm exam will be given during the fourth or fifth week of the summer session, and a final exam given during the last week of the session. There will also be weekly quizzes. The midterm exam will count 100 points and the final exam will count 130 points. Quizzes, homework and class participation will count approximately 120 points.

HOMEWORK:

Written assignments are an essential element of the course, and completed homework assignments will be expected of the students. Assignments will generally consist of 2-4 problems collected each day. The homework will be graded and returned as soon as possible. Late homework will be accepted only if prior arrangements are made.

ATTENDANCE:

Attendance at lectures and participation in discussions is expected. The instructor should be notified if the student must miss class.

COURSE OBJECTIVES:

The goal of this course is to provide students with a strong foundation in the fundamentals of statistical inference. Key concepts include probability and probability models, random variables, expectations, discrete and continuous distributions, estimation, regression and hypothesis testing.

TOPICS FOR THIS COURSE:

I plan to cover most of the material in Chapters 1-4 of the text. If time permits, I may cover selected topics from Chapters 6. I want to maintain an informal atmosphere and encourage class discussion and participation. Questions are always welcome and encouraged.

COMPUTER LAB:

The computer, along with appropriate statistical software, can be a valuable tool for developing statistical skills and understanding. However, due to the amount of material that we must cover in this session, I will not require use of the computer for this course. However, the Department of Statistics and Actuarial Science maintains a computer lab of Windows machines in 41 SH that is available to all University of Iowa students. Students may use these machines and Minitab software for doing assignments and learning statistical skills. The computer lab will be open from 8:00 AM - 5:00 PM during weekdays. However, the computer lab may be reserved at certain times for particular classes. A schedule of these times will be posted on the door to the computer lab.

ADDITIONAL HELP:

Students are encouraged to see the instructor outside of class for additional help. The Department also maintains a list of possible tutors (see Tammy in Room 241).

DISABILITIES:

I would like to hear from anyone who has a disability which may require some modification of the seating, testing, or other class requirements so that appropriate arrangements can be made. Please see me as soon as possible if this is pertinent.

FINAL EXAM DATE: 9:00 AM, Friday, July 27.

This course is given in the College of Liberal Arts and Sciences. This means that class policies on matters such as requirements, grading, and sanctions for academic dishonesty are covered by the College of Liberal Arts and Sciences. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the College of Liberal Arts and Sciences. Details of the University policy of cross enrollments may be found at <http://www.uiowa.edu/~provost/deos/crossenroll.doc> University policies regarding Student Rights and Responsibilities can be found at http://www.clas.uiowa.edu/students/academic_handbook/